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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/007,866	12/06/2001	Vijay Kumar'	P04829US1	6560
22885 7590 12/21/2007 MCKEE, VOORHEES & SEASE, P.L.C.			EXAMINER	
801 GRAND AVENUE SUITE 3200 DES MOINES, IA 50309-2721			WHITE, EVERETT NMN	
			ART UNIT	PAPER NUMBER
			1623	
		·		
		·	MAIL DATE	DELIVERY MODE
			12/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
ψ	10/007,866	KUMAR ET AL.				
Office Action Summary	Examiner	Art Unit				
	Everett White	1623				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONED	l. ely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 09 Oc	ctober 2007.					
	·					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>36</u> is/are pending in the application.						
,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
c)⊠ Claim(s) <u>36</u> is/are rejected.						
7) Claim(s) is/are objected to.)☐ Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of	or the certified copies not receive	u.				
Attachment(s)	4) 🔲 Interview Summary	(PTO-413)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa	atent Application				

Art Unit: 1623

DETAILED ACTION

- 1. The amendment filed October 9, 2007 has been received, entered and carefully considered. The amendment affects the instant application accordingly:
- (A) Claims 1-6 and 37-40 have been previously canceled;
- (B) Claim 36 has been amended;
- (C) Comments regarding Office Action have been provided drawn to:
 - (I) 112, 1st paragraph rejection, which has been withdrawn.
- 2. Claim 36 is the only claim pending in the case.
- 3. The text of those sections of Title 35, U. S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

4. Claim 36 stands rejected under 35 U.S.C. 102(b) as being anticipated by Bogan et al (US Patent No. 4,590,265, already of record).

Applicants amended Claim 36 by removing text that was not supported in the instant specification, which reverted Claim 36 to claim text previously of record. Claim 36 is now drawn to a biodegradable, oxidized cellulose ester having formulas I or II

wherein:

X is selected form the group consisting of H, Na, K, Ca, NH₄, and NEt₃H; whereby R is $(CH_2)_n(COOH)$, where n is 2 to 4; w is 0.1-1.0; x is 0.1-2.0; and n is 30-1500,

and

Application/Control Number: 10/007,866

Art Unit: 1623

wherein:

X is selected from the group consisting of H, Na, K, Ca, NH₄, and NEt₃H;

R' and R" are each selected from the group consisting of H; CF_3 , $(CH_2)_nCH_3$, where n is from 0 to 18; $(CH_2)_nCOOH$, where n is from 1 to 8; CY=CZCOOH, where Y and Z are independently selected for the group consisting of hydrogen, methyl, branched alkyl having from 1 to 20 carbon atoms and from one to three *cis* or *trans* double bonds; branched alkenyl having from 1 to 20 carbon atoms and having from one to three *cis* or *trans* double bonds; $CY-CH_2$, where Y is H, methyl, or phenyl; CH=CHY, where Y is C_6H_5 ; CH=CYCOOH, where Y is H or CH_3 ; $(CH_2)_8(CH=CH(CH_2)_8CH_3$; or $C_6H_{2-6}(COOH)_{0-4}$, $CH_2CH(COOH)CH_2-COOH$;

w is 0.1-1.0; x' is 0.1-1.9; y is 0.1-1.9; and n is 30-850.

In view of the reversion of instant Claim 36, the rejection of Claim 36 as being anticipated by the Bogan et al patent which was previously used to reject instant Claim 36 has been reinstated. The Bogan et al patent discloses a chemical modification of a cellulose ester by oxidizing the primary hydroxyl group at the C6 position of the anhydroglucose ring of the cellulose ester to produce a carboxylated cellulose ester (see column 17, lines 44-50), which meets the carboxyl content set forth in the instant claims. See the structure of the carboxylated cellulose acetate butyrate at the bottom of column 16 of the Bogan et al patent, which anticipates the oxidized cellulose ester of formula II set forth in instant Claim 36 when X represents H; when R' and R" represent (CH2)nCH3, n is 0 or 2; when w is 1; and when x' and y are 0.1-1.9. With regard to the instantly claimed oxidized cellulose ester being biodegradable, Applicants are reminded that products of identical chemical composition cannot have mutually exclusive properties. A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties Applicant discloses and/or claims are necessarily present. *In re Spada* 15 USPQ 2d 1655, 1658 (Fed. Cir.

Application/Control Number: 10/007,866

Art Unit: 1623

1990). See MPEP 2112.01. Accordingly, the above described carboxylated cellulose ester of the Bogan et al patent anticipates the instantly claimed biodegradable, oxidized cellulose ester for the reasons set forth herein.

5. Applicant's arguments with respect to Claim 36 have been considered but are most in view of the new ground(s) of rejection.

Summary

6. Claim 36, the only pending claim, is rejected.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened-statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Examiner's Telephone Number, Fax Number, and Other Information

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Everett White whose telephone number is 571-272-0660. The examiner can normally be reached on 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia A. Jiang can be reached on 571-272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/007,866

Art Unit: 1623

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

E. White

Shaojia A. Jiang

Supervisory Primary Examiner

Page 5

Technology Center 1600